

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

MAGRUDER LIMESTONE COMPANY

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of limestone in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 592 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Lincoln	02, 11	50N	01W	57	0	57	Silex Quarry	0110
Lincoln	11, 12	49N	01W	310	0	310	Troy Quarry	0109
Pike	27, 28	52N	03W	90	0	90	Ashley Quarry	0108
Pike	20	53N	03W	90	0	90	Bowling Green	0111
Pike	35, 36	55N	04W	45	0	45	Frankford Quarry	0112

This permit may be suspended or revoked upon violation of any or all of the conditions set

forth in "The Land Reclamation Act," RSMo, 2001, or in such rules and regulations

as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this

13th

day of

August 2004

Permit No. 0086

Effective Date 09/01/2004

Expiration Date 08/31/2005

MO 780-1122 (6-95)

Tom Calahan
DIRECTOR OF STAFF

Land Reclamation Commission

RECEIVED

JUL 22 2004



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND
RECLAMATION COMMISSION

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <i>Magruder Limestone Co. Inc.</i>		DATE <i>7-14-04</i>	
ADDRESS <i>285 Watson Rd</i>	CITY <i>Troy</i>	STATE <i>MO</i>	ZIP CODE <i>63379</i>
CONTACT PERSON <i>Dean A. McDonald</i>		TELEPHONE NUMBER <i>636-528-4180</i>	
FEES: COMPLETE SECTION I OR SECTION II			
SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:			

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. <i>Troy</i>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ <i>300.00</i>
2. <i>Sikeston</i>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ <i>300.00</i>
3. <i>Ashley</i>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ <i>300.00</i>
4. <i>Bowling Green</i>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ <i>150.00</i>
5. <i>Frankford</i>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ <i>150.00</i>
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
TOTAL SITE FEE		\$ <i>1200.00</i>

2. Acreage Fee \$5 X *582.57* number of acres bonded \$ *2910.00 2960*

3. Annual Permit Fee \$ 500

4. Total Fee (Add totals from 1, 2 and 3) \$ *4610 4660*

NOTE: If Total Fee exceeds \$2,500.00 then pay only \$ *2,500*

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee \$ 300

SIGNATURE OF APPLICANT <i>Dean A. McDonald</i>		TITLE <i>VP Marketing</i>	DATE <i>7-15-04</i>
Appeared before me this <i>15th</i> day of <i>July</i> , 20 <i>04</i> . <i>Dean McDonald</i> to me personally known, who executed the above as their free acts and deeds.			
	STATE OF <i>MISSOURI</i>		COUNTY (OR CITY OF ST. LOUIS) <i>Lincoln</i>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>15th</i> DAY OF <i>JULY</i> YEAR <i>2004</i>		USE RUBBER STAMP IN CLEAR AREA BELOW. Notary Public - Notary Seal STATE OF MISSOURI Lincoln County My Commission Expires: Nov. 11, 2005
	NOTARY PUBLIC SIGNATURE <i>David G. Brown</i>		
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>DAVID G. BROWN</i>		
FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i>	DATE APPROVED <i>8-13-04</i>	PERMIT NUMBER <i>0086</i>	EXPIRATION DATE <i>8-31-05</i>



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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MAR 22 2001

MISSOURI LAND
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <i>TROY QUARRY</i>		PERMIT NUMBER <i>0086</i>	
COMPANY NAME <i>Magruder Limestone Co., Inc.</i>			
COUNTY <i>LINCOLN</i>	1/4 SECTION	SECTION <i>14 12</i>	
TOWNSHIP <i>49N</i>	RANGE <i>1W</i>	ACRES <i>170</i>	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY <i>LIMESTONE</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

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APR 30 2001

MISSOURI LAND
RECLAMATION COMMISSION

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>SMITH FAMILY HEIRS</i>		
ADDRESS <i>% Stan Bacon 7145 E. 400 N</i>		
CITY <i>Brownsburg</i>	STATE <i>IN</i>	ZIP CODE <i>46112</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <i>1987</i>
<input checked="" type="checkbox"/> LEASE <input checked="" type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>SAME AS ABOVE</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <i>1987</i>
<input checked="" type="checkbox"/> LEASE <input checked="" type="checkbox"/> VERBAL AGREEMENT		
NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.		



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED

APR 30 2001

To be completed for each separate area of disturbance associated with mining operations.

MISSOURI LAND
RECLAMATION COMMISSION

SITE NAME OR NUMBER

Troy Quarry

PERMIT NUMBER

0086

COMPANY NAME

Magruder Limestone Co., Inc.

COUNTY

Lincoln

1/4 SECTION

SECTION

2, 11 & 12

TOWNSHIP

49N

RANGE

1W

ACRES

130 140 12-11-01

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

MINERAL COMMODITY

Limestone

ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)

Magruder Quarry & Equipment LLC

ADDRESS

255 WATSON RD

CITY

Troy

STATE

Mo

ZIP CODE

63379

SOURCE OF RIGHT TO MINE (CHECK ONE):

☐ MINERAL DEED

☐ WARRANTY DEED

☐ OTHER (DESCRIBE):

☒ LEASE

☒ VERBAL AGREEMENT

DATE OF AGREEMENT

4/26/01

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)

SAME AS ABOVE

ADDRESS

CITY

STATE

ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

☐ MINERAL DEED

☐ WARRANTY DEED

☐ OTHER (DESCRIBE):

☒ LEASE

☒ VERBAL AGREEMENT

DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

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MAR 22 1950



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

MISSOURI LAND
RECLAMATION COMMISSION

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE:

3/30/50

COMPANY NAME

Maquodet Limestone Co., Inc.

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of $3\frac{1}{8}$ acres. The area is steeply sloped off 2 ridge areas. There are trees on the slopes and open areas on the ridges. The topsoil is very shallow on the eastern part of the plan area (6" to 1') and is deeper (1' to 2') on the western ridge. Rock is exposed on much of the slopes. Subsoil on the ridges is composed of Clay & Chert and is 10-20' deep. The area is bounded by Lincoln County road 654 (Watson Rd) to the South & by Hwy 61 on the N.W. Corner.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

6" to 24"

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The area will be cleared with a dozer or hoe excavator if necessary. The topsoil will be removed by scraper or excavator and stockpiled on site. The subsoil will be removed by scraper or hoe and used to level low areas, backslope pit or stockpiled. Clearing will be done 2-5 acres at a time and overburden will be removed 2-5 acres at a time.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Scrapers will remove the topsoil and stockpile it on site. These stockpiles will be seeded to grass. The top soil will be used to finish sloped areas during reclamation.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Limestone spoil will be used for initial slopage of quarry walls. Subsoil of clay + chert will also be used to slope walls initially. Final grading will be done with whatever topsoil is available. All reclaimed areas will be seeded.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

YES

NO

☐
☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐
☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐
☒

Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

MISSOURI LAND

A. REVEGETATION (Attach additional sheets, if needed)

RECLAMATION COMMISSION

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

FESCUE + LESPEDEZA

LAKE & Development

Spring & Fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After topsoil is replaced the seed will be broadcast and pressed into the top 1/2" to 1" of topsoil. Reseeding will occur as necessary.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
<i>FESCUE</i> <i>LESPEDEZA</i>	<i>20#/acre</i> <i>15#/acre</i>		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

RECLAMATION COMMISSION

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All areas of the pit will be graded to the required slope & seeded. This area will be used for stock pile area as long as the quarry is active. Eventually the quarry pit will be turned into 1-3 lakes (depending on future agreement between owners) These lakes will total approx 158 acres. The rest of the area (approx. 150 acres) will be developed based on local planning guidelines.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be done as pit is backfilled. Final grading will be done as needed or at least one year after quarrying is complete.

REPLACEMENT OF TOPSOIL

Topsoil will be replaced as soon as grade is brought up as much as possible by spoilage & Cherty Clay.

REVEGETATION

All topsoil will be seeded as soon as possible after final grading and as needed thereafter.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

6 "

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

150 ^{160 MO 12/1/01}

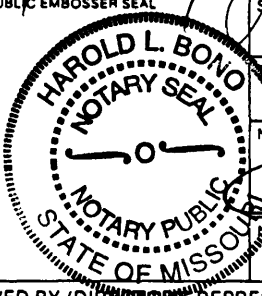
158-150 ^{NO 4738}

RECEIVED
MAR 22 1999

By my signature, I attest to the following:

MISSOURI LAND
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo [REDACTED] and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Mark [Signature]</i>		TITLE <i>VICE PRES</i>	DATE <i>3/12/99</i>
NOTARY PUBLIC EMBOSSEER SEAL 	STATE <i>MISSOURI</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Lincoln</i>	
SUBSCRIBED AND SWORN BEFORE ME, THIS <i>12th</i> DAY OF <i>March</i> 19 <i>99</i>		USE RUBBER STAMP IN CLEAR AREA BELOW <i>HAROLD L. BONO</i> Notary Public - Notary Seal STATE OF MISSOURI Lincoln County My Commission Expires: Nov. 11, 2001	
NOTARY PUBLIC SIGNATURE <i>[Signature]</i>		MY COMMISSION EXPIRES <i>11/11/2001</i>	
NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>HAROLD L. BONO</i>			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>[Signature]</i>	DATE APPROVED <i>4-13-99</i>	PERMIT NUMBER <i>0086</i>	



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

Adding acres to permit

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FEB 25 1998

MISSOURI LAND
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <i>Ashley Quarry</i>		PERMIT NUMBER <i>0086</i>	
COMPANY NAME <i>Maquodet Limestone Co., Inc.</i>			
COUNTY <i>PIKE</i>	1/4 SECTION	SECTION <i>27+28</i>	
TOWNSHIP <i>52N</i>	RANGE <i>3W</i>	ACRES <i>90</i>	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY <i>Limestone</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>Maquodet Limestone Co., Inc.</i>		
ADDRESS <i>255 WATSON Rd</i>		
CITY <i>Troy</i>	STATE <i>Mo.</i>	ZIP CODE <i>63379</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input checked="" type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input checked="" type="checkbox"/> OTHER (DESCRIBE): <i>OWNER OF PROPERTY</i>		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

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FEB 26 1998

MISSOURI LAND
RECLAMATION COMMISSION

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

COMPANY NAME

☒ LONG TERM, FOR PERIOD THROUGH DATE: 2050

Magnum Limestone - Ashley Quarry

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This is a rolling, hilly site that is covered with trees on about 70% of the acres. It is next to our current permitted quarry at Ashley, Mo. The top soil is 6"-12" deep. There is a Cherty, Clay area under this topsoil of 12" to 2'.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Top soil will be moved by scrapers and stockpiled for future reclamation.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Top soil will be stockpiled by use of scrapers and a dozer will dress up pile. We will then sow grass on stockpile to provide erosion control. We will keep grass growing until topsoil is needed for reclamation.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

*We anticipate little spoilage at this site.
We use most of Cherty, Clay to level areas for stockpiles.
Rest of cherty, clay and any fines will be used to
reclaim pit to proper slopes.*

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

- None -

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAP

YES NO

☐ YES ☒ NO Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ YES ☒ NO Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☒ YES ☐ NO Will any excavation start at or within fifty feet (50') of any property line? *This will be between our current leased property + our property.*
(NOTE: If the answer is "yes", a safety barrier may be needed.)

Ashley Quarry

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FEB 25 1998

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

MISSOURI LAND
RECLAMATION COMMISSION

Fescue & Lespedeza

Lake & recreational
housing

fall & Spring

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

All slopes will be sloped to proper angle using Clay, chert, mix & spoilage. Topsoil will be put on top. We will lime & fertilize as needed & sow grass and lespedeza with broadcast seeder or blower. Seed will be pressed into soil with roller.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20#/acre		
Lespedeza	15#/acre		

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FEB 25 1998MISSOURI LAND
RECLAMATION COMMISSION

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

Ashley Quarry

Ashley Quarry

RECEIVED
FEB 25 1998

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND
RECLAMATION COMMISSION

When we are done quarrying the area, it will consist of a lake of approx. 70 acres. This lake will be the pit and the sides will be sloped per regulation. The rest of the area will be worked and sown in grass. This area will be used for recreational use at first. Later it may be used for housing or cattle ranching.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will proceed as we quarry thru the area. This will be an ongoing procedure as an area is opened the overburden will be used to reclaim a prior area of the pit.

REPLACEMENT OF TOPSOIL

Topsoil will be placed after most of the grading is done and just prior to seeding. This step will be done at final reclamation.

REVEGETATION

After 2" topsoil is placed and the final grade is established we will lime + fertilize the area and grass down.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

6-12"

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

20

70

Ashley Quarry

RECEIVED
FEB 25 1999

By my signature, I attest to the following:

MISSOURI LAND
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo [REDACTED] and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Harold C. Bono</i>		TITLE <i>Off Mgr</i>	DATE <i>2/19/98</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>MISSOURI</i>	COUNTY (OR CITY OF ST. LOUIS) <i>PIKE</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>19</i> DAY OF <i>FEB.</i> 19 <i>98</i>		USE RUBBER STAMP IN CLEAR AREA BELOW SHIRLEY A. BROWN Notary Public-Notary Seal State of Missouri Pike County My Commission Expires Apr 1, 2000
	NOTARY PUBLIC SIGNATURE <i>Shirley A. Brown</i>	MY COMMISSION EXPIRES <i>4-1-2000</i>	
NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>SHIRLEY A BROWN</i>			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>[Signature]</i>		DATE APPROVED <i>4-16-98</i>	PERMIT NUMBER <i>0086 A1</i>



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED
APR 22 1996

To be completed for each separate area of disturbance associated with mining operations.			MISSOURI LAND RECLAMATION COMMISSION	
SITE NAME OR NUMBER <i>Bowling Green Quarry</i>		PERMIT NUMBER <i>86</i>		
COMPANY NAME <i>Magnum Limestone Co., Inc.</i>				
COUNTY <i>Pike</i>	1/4 SECTION		SECTION <i>20</i>	
TOWNSHIP <i>53N</i>	RANGE <i>3W</i>		ACRES <i>90</i>	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)				
MINERAL COMMODITY <i>Limestone</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)		

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>George Mehler</i>		
ADDRESS <i>Rt 2 Box 29A</i>		
CITY <i>Siler</i>	STATE <i>Mo.</i>	ZIP CODE <i>63377</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <i>3/29/96</i>
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>Same As Above -</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <i>3/29/96</i>
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED
APR 22 1996

PO BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE:

MARCH 29, 2021

MISSOURI LAND
RECLAMATION COMMISSION

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approx 90 acres. The area is steeply sloped with some trees around fence rows and edges. Approx. 50% is open field. There is about 10-12 foot of topsoil on average but about 5-10 feet on the area that will be mined. There is an old quarry pit of about 4 acres at this site. It has not been worked since the 1960's.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

120

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The topsoil will be cleared of brush & trees by dozer. The topsoil will then be moved by scraper & stockpiled onsite for future use. Clearing & removal of topsoil will be done 2 acres at a time for present.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Removal of topsoil by scrapers. The topsoil will be stockpiled on site. These stockpiles will be seeded in grass to protect them from erosion. The soil stockpiles will be used for reclamation as needed.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND
RECLAMATION COMMISSION

We don't anticipate any spoil from this site. However if some fines are left after quarrying ceases than they will be used to slope pit walls to form lake.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

- SEE SITE MAP -
Final pit location depends on quality of rock found.

YES NO

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

MISSOURI LAND

RECLAMATION COMMISSION

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

FESCUE + LESPEDEZA

LARE + Housealg

SPRING + FALL

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After topsoil is replaced & final slope is accomplished the area will be broadcast with the seed & pressed into the top 1/2" to 1" of topsoil. We will reseed as needed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue Lespedeza	20#/acre 15#/acre		

VEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADINGMISSOURI LAND
RECLAMATION COMMISSION

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The reclaimed topography will be sloped to fit in with the surrounding original landscape. The pit itself will be turned into a lake with housing sites surrounding it.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

Grading will take place as the pit is backfilled. Final grading will be done at least 1 year before lake is finished.

REPLACEMENT OF TOPSOIL

Topsoil will be replaced as final grading takes place.

REVEGETATION

All topsoil (stockpile + final grading) will be seeded in fall & Spring to prevent erosion. Final grading will be seeded as grading is finished.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12" 36"

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	45
Water impoundments (for wildlife, agricultural, or development)	45

RECEIVED
APR 22 1996

By my signature, I attest to the following:

MISSOURI LAND
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Harold Brown</i>		TITLE <i>off mgr</i>	DATE <i>4/19/96</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Lincoln</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>19th</i> DAY OF <i>April</i> 19 <i>96</i>		
	NOTARY PUBLIC SIGNATURE <i>Terri L. Kunza</i>	MY COMMISSION EXPIRES	USE RUBBER STAMP IN CLEAR AREA BELOW TERRI L. KUNZA NOTARY PUBLIC-NOTARY SEAL STATE OF MISSOURI LINCOLN COUNTY MY COMMISSION EXP. MAY 23, 1998
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Terri L. Kunza</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) MEC, P.C.		DATE APPROVED <i>5/7/96</i>	PERMIT NUMBER <i>86</i>

RECEIVED

NOV 15 1999



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

To be completed for each separate area of disturbance associated with mining operations.			MISSOURI LAND RECLAMATION COMMISSION
SITE NAME OR NUMBER <i>Magruder Limestone - Frankford Quarry</i>		PERMIT NUMBER <i>0086</i>	
COMPANY NAME <i>Magruder Limestone Co, Inc.</i>			
COUNTY <i>PIKE</i>	1/4 SECTION	SECTION <i>1, 35, & 36</i>	
TOWNSHIP <i>55</i>	RANGE <i>4W</i>	ACRES <i>50 ACRES</i>	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY <i>LIMESTONE</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>Magruder Limestone Co, Inc.</i>		
ADDRESS <i>255 WATSON Rd</i>		
CITY <i>Troy</i>	STATE <i>Mo</i>	ZIP CODE <i>63379</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input checked="" type="checkbox"/> OTHER (DESCRIBE): <i>OWNED By Company</i>		DATE OF AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>Magruder Limestone Co, Inc.</i>		
ADDRESS <i>255 WATSON Rd</i>		
CITY <i>Troy</i>	STATE <i>Mo</i>	ZIP CODE <i>63379</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input checked="" type="checkbox"/> OTHER (DESCRIBE): <i>OWNED By Company</i>		DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED
NOV 03 1999

P.O. BOX 176 FRANKFORD
JEFFERSON CITY, MO 65102

MISSOURI LAND
RECLAMATION COMMISSION

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE:

12/31/2050

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

FRANKFORD QUARRY

This plan covers an area of approx. 50 acres. This site lies in a rolling area with some trees. Overburden is approx. 9-10 feet. The area is bordered on the West by U.S. Hwy 61.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

~~11 1/2~~ 13 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Topsoil & overburden will be removed with dozers, scrapers, & front end loaders. It will be stockpiled on site. It will be removed as needed prior to mining.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Scrapers & trucks will carry the ^{TOPSOIL} ~~overburden~~ to the stockpile site where it will be shaped with front end loaders. The stockpile will be seeded to prevent erosion.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All overburden from the Pit will be stockpiled or placed in the mine out portions of the Pit and eventually graded to the required slope of 3 to 1.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

— NONE —

. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAPS

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MISSOURI LAND
RECLAMATION COMMISSION

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no-case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

#1

Pasture Development

Spring or Fall

Oct., March, or April

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After topsoil has been replaced and graded, grass will be sowed on the site to prevent erosion. This seed will be broadcast + pressed into the soil.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
FESCUE	20#/ACRE		
LESPEDEZA	15#/ACRE		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

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NOV 3 1999

MISSOURI LAND
RECLAMATION COMMISSION

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND
RECLAMATION COMMISSION

All reclaimed areas will be graded to the required slopes. A lake of approx. 35¹⁰⁻²¹⁻⁹⁹ acres will be constructed from the old pit with an area around the lake of approx. 15¹⁰⁻²¹⁻⁹⁹ acres seeded to grass. The required slope shall be 3 to 1.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be done as the pit is back filled. Final grading will be completed 1 year after the lake is finished. Areas become inactive. ¹⁰⁻²¹⁻⁹⁹

REPLACEMENT OF TOPSOIL

Topsoil will be replaced within 1 year of final grading. Topsoil will be placed to a uniform depth of 12". Topsoil will be replaced within one year of final grading.

REVEGETATION

All topsoil will be seeded in the fall or spring following topsoil replacement.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12" ¹⁰⁻²¹⁻⁹⁹

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

15



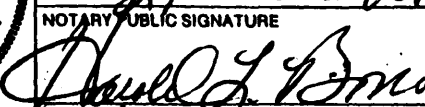

Water impoundments (for wildlife, agricultural, or development)

35

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED
NOV 03 1999
MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT 		TITLE V- Pres	DATE 10/29/99
	STATE MISSOURI		COUNTY (OR CITY OF ST. LOUIS)
	SUBSCRIBED AND SWORN BEFORE ME, THIS 29th DAY OF October 19 99		USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE 	MY COMMISSION EXPIRES 11/11/01	HAROLD L. BONO Notary Public - Notary Seal STATE OF MISSOURI Lincoln County My Commission Expires: Nov. 11, 2001
	NOTARY PUBLIC NAME (TYPED OR PRINTED) HAROLD L. BONO		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		DATE APPROVED 12-10-99	PERMIT NUMBER 0086

RECEIVED



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

MISSOURI LAND
RECLAMATION COMMISSION

Expansion Acres

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <i>Silex Quarry</i>		PERMIT NUMBER <i>0086</i>	
COMPANY NAME <i>Magruder Limestone Co., Inc.</i>			
COUNTY <i>Lincoln</i>	1/4 SECTION	SECTION <i>2</i>	
TOWNSHIP <i>50N</i>	RANGE <i>1W</i>	ACRES <i>3 1/2 m/L</i>	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY <i>Limestone</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>Ellis Properties L.L.C.</i>		
ADDRESS <i>99 Ellis Ln.</i>		
CITY <i>Silex</i>	STATE <i>Mo.</i>	ZIP CODE <i>63377</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT <i>11/13/02</i>
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>Same</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

NEW SITE
RECEIVED
FEB 25 1998

To be completed for each separate area of disturbance associated with mining operations.

MISSOURI LAND
RECLAMATION COMMISSION

SITE NAME OR NUMBER <i>Silex Quarry</i>		PERMIT NUMBER <i>0086</i>	
COMPANY NAME <i>Magruder Limestone Co., Inc.</i>			
COUNTY <i>Lincoln</i>	1/4 SECTION	SECTION <i>11 & 2</i>	
TOWNSHIP <i>50N</i>	RANGE <i>1W</i>	ACRES <i>23</i>	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY <i>Limestone</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>Magruder Limestone Co., Inc.</i>		
ADDRESS <i>255 Watson Rd</i>		
CITY <i>Troy</i>	STATE <i>Mo.</i>	ZIP CODE <i>63379</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input checked="" type="checkbox"/> OTHER (DESCRIBE): <i>Owner</i>		DATE OF AGREEMENT <i>1969</i>
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>Same - As - Above</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input checked="" type="checkbox"/> OTHER (DESCRIBE): <i>OWNED By Magruder Limestone Co., Inc.</i>		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED
FEB 19 1998

MISSOURI LAND RECLAMATION COMMISSION
P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

COMPANY NAME

☒ LONG TERM, FOR PERIOD THROUGH DATE:

November 1, 2050

Magruder Limestone Co., Inc.

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This site covers an area of 23 acres. The site was opened for a quarry in 1969 but was not used for very long. It is rolling with trees on approx. 1/2 of the acreage. It has a small pit approx. 100' x 50' and 40' deep. The topsoil is 6" to 2' deep.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

15 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The topsoil will be removed by dozer, scrapers, or excavator. It will be stockpiled on site for later use in reclamation.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The topsoil will be removed by dozer or excavator and stockpiled with scrapers or haul trucks. These stockpiles will be sown in grass until needed for reclamation.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The topsoil on site will be stored & used for reclamation. The cherty, rocky subsoil will be used to level an area for stockpiles. Any other rock on site will be crushed and sold for commercial use.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

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FEB 25 1998

MISSOURI LAND
RECLAMATION COMMISSION

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

- SEE SITE MAP. -

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

FESCUE + LESPEDEZA

PURPOSE OR LAND USE

LAKE + HOUSING

B. SEEDING OR PLANTING TIME

Spring + Fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After topsoil is replaced and final slopes have been accomplished the area will be worked with disk. Fertilizer + lime will be broadcast on area and grass seed will be broadcast. A roller will press the seed into the soil.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
FESCUE LESPEDEZA	20#/acre 15#/acre		RECEIVED FEB 25 1998 MISSOURI LAND RECLAMATION COMMISSION

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

JAN 2 2003

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND
RECLAMATION COMMISSION

The pit area on the expansion area will be deeper than on Magudeis land. It will be sloped to the required slope and turned into a lake. The area around the lake will be leveled. Residential buildings will be placed on Magudeis limestone's land. If in the future the Ellis property is bought, residential buildings could surround the lake.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

Grading will take place as pit walls are sloped. Final grading will be done at least 1 year before mining and the lake is finished.

REPLACEMENT OF TOPSOIL

Topsoil will be replaced as final grading takes place.

REVEGETATION

all topsoil will be seeded in fall & spring to prevent erosion. Final grading will be seeded as grading is finished.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agriculture, or development)

36

21

PERMIT NO.

0086

SITE NUMBER/NAME

Alex Quarry

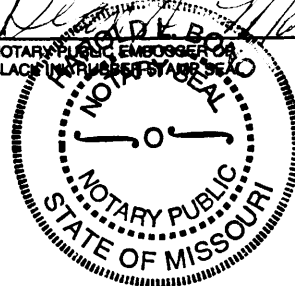
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JAN 2 2003

By my signature, I attest to the following:

MISSOURI LAND
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>David L. Bono</i>		TITLE <i>GC/Marketing</i>	DATE <i>12/20/02</i>
	STATE <i>MISSOURI</i>		COUNTY (OR CITY OF ST. LOUIS) <i>LINCOLN</i>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>20th</i> DAY OF <i>December</i> YEAR <i>2002</i>		USE RUBBER STAMP IN CLEAR AREA BELOW. Notary Public - Notary Seal STATE OF MISSOURI Lincoln County My Commission Expires: Nov. 11, 2005
	NOTARY PUBLIC SIGNATURE <i>David L. Bono</i>	MY COMMISSION EXPIRES <i>11-11-05</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>HAROLD L. Bono</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>[Signature]</i>		DATE APPROVED <i>3-20-03</i>	PERMIT NUMBER <i>0086</i>

RECEIVED
EXPANSION ARTS

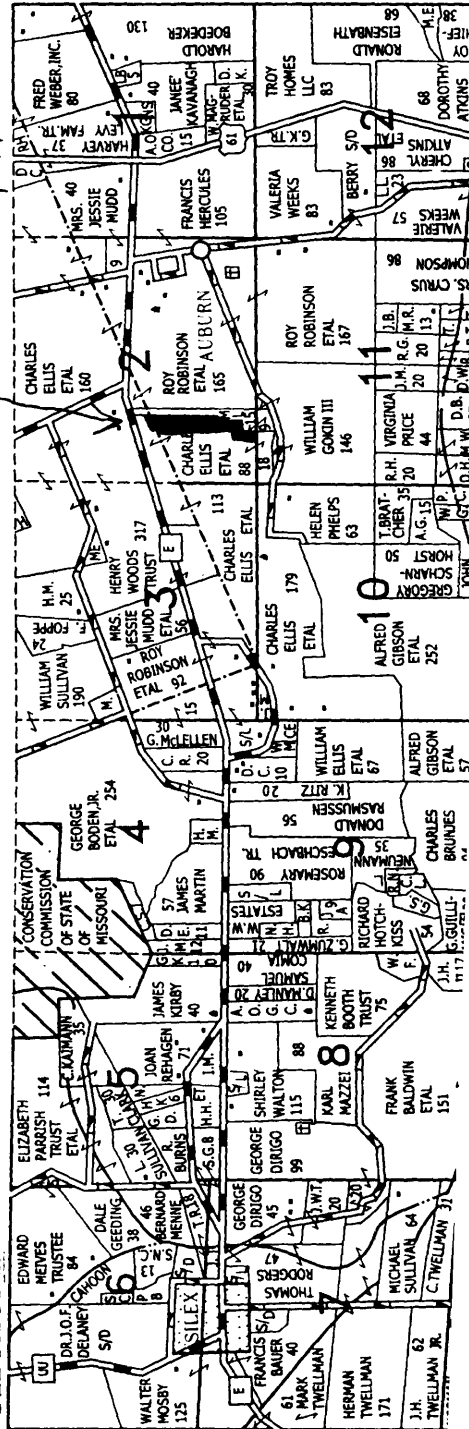
DEC 9 2002

**MISSOURI LAND
REGULATION COMMISSION**
(573) 898-2861
Fax: (573) 898-2338

Billy Collins

TOWNSHIP 50N • RANGE 1W

SEE PAGE 15



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2002

MISSOURI LAND
COMMISSION

483A
470A(c)
Edward Clary

HWY E

SEE MAP NO
52-08-02
SCALE 1"=40'

Magers Limestone
Lincoln County
Silex Quarry
T 50N R 14W S-2+11
Permit # 0086

Charles
Ellis ETAL

Proper
L.L.C.

Martha
Veese man

Date of Map 1993
Map prepared by
Kucera
International

64.00Ac
55.98Ac(c)

24.00Ac
18.88Ac

22.90Ac
14.47Ac

23.3Ac(c)

49.63 Ac.
45.17 Ac(c)

William
Gokin

20
4834
4704610



— = Boundary of MINE PLAN

63
SCALE

2
49.63 Ac.
45.32 Ac(c)

DETAIL MAP

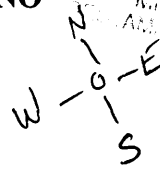
GRUDER LIMESTONE CO., INC.
DY QUARRY
COLN COUNTY
N 49N-R1W-SECT.1,11 & 12

PERMIT #086
PREPARED BY: HAROLD BONO
DATE: October 4, 2001
SCALE: 1"=660'

RECEIVED

OCT 17 2001

MISSOURI LAND
AUCTION COMMISSION



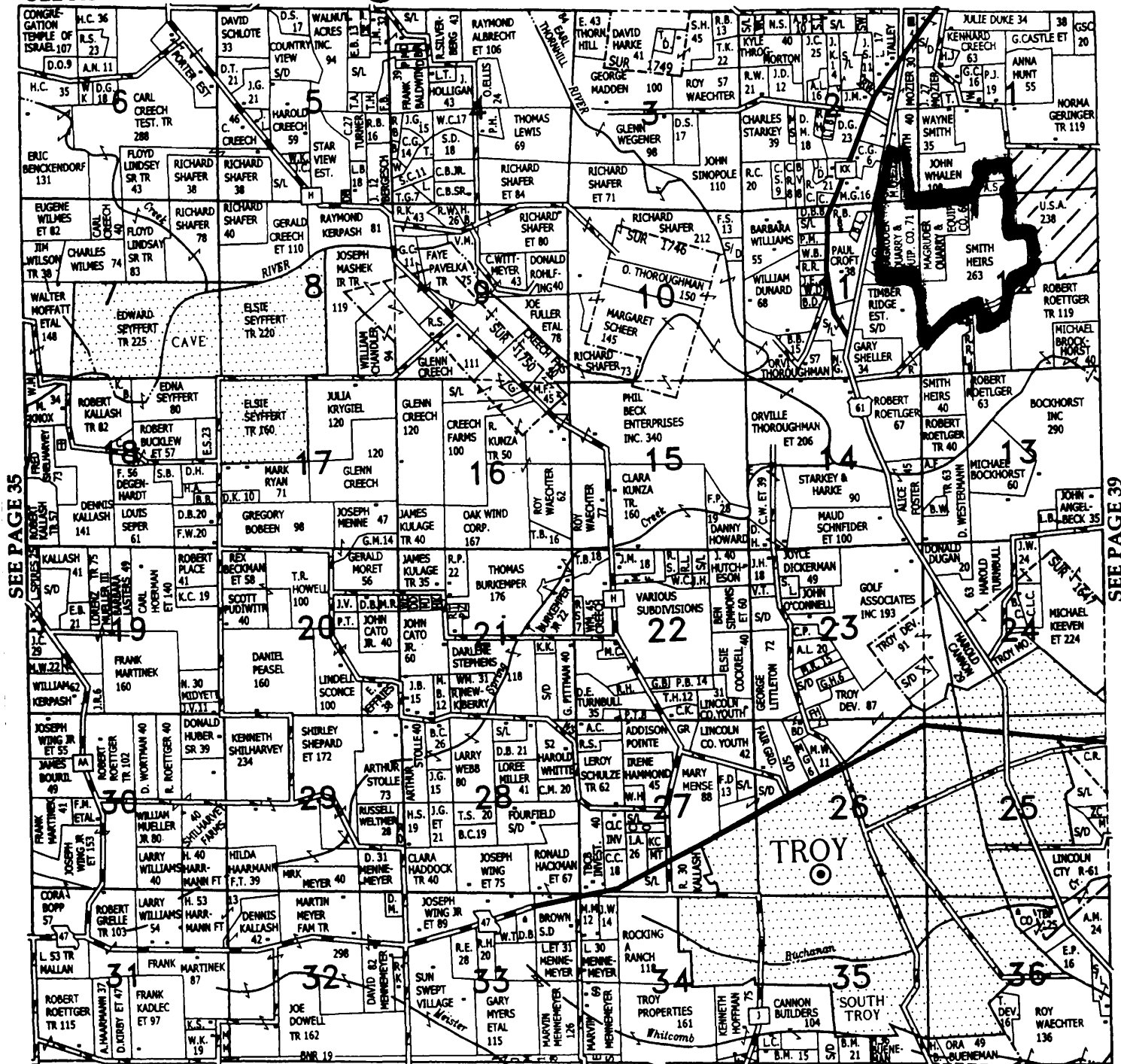
QUARRY BOUNDARY

IN ACRES & PERMITTED ACRES
0 OR 310 ACRES DEPENDING ON
(PERMIT EXPANSION REQUEST)



TOWNSHIP 49N • RANGE 1W

SEE PAGE 25



MAGRUDER LIMESTONE CO., INC. -

255 WATSON RD

Troy, Mo. 63379

By: HAROLD BOND

FEBRUARY 8, 2001

1" = 3300'

Troy Quarry

Lincoln County

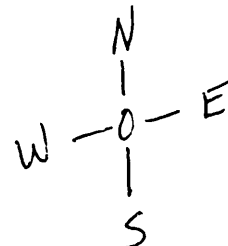
SECTION 1, 11 & 12 - T49N-R1W

Property Boundary

RECEIVED

OCT 17 2001

MISSOURI LAND RECLAMATION CO.



LOCATOR MAP -

LOCATOR MAP

MAGRUDER LIMESTONE CO., INC.
ASHLEY QUARRY
PIKE COUNTY
TWN 52N-R3W-SECT. 27 & 28

PERMIT #086
PREPARED BY: HAROLD BONO
DATE: October 4, 2001
SCALE: 1"= 3300'

RECEIVED

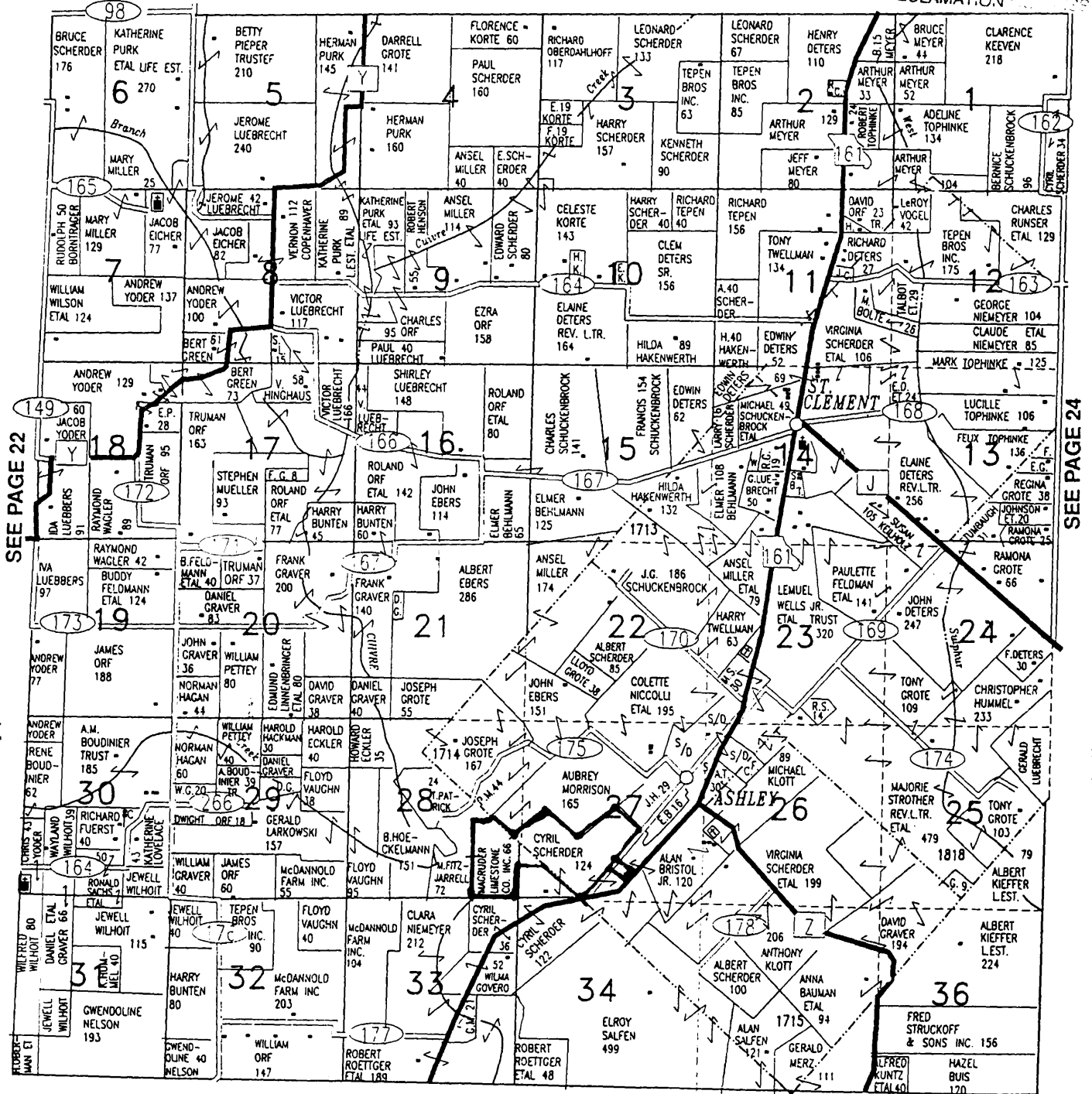
OCT 17 2001

QUARRY SITE

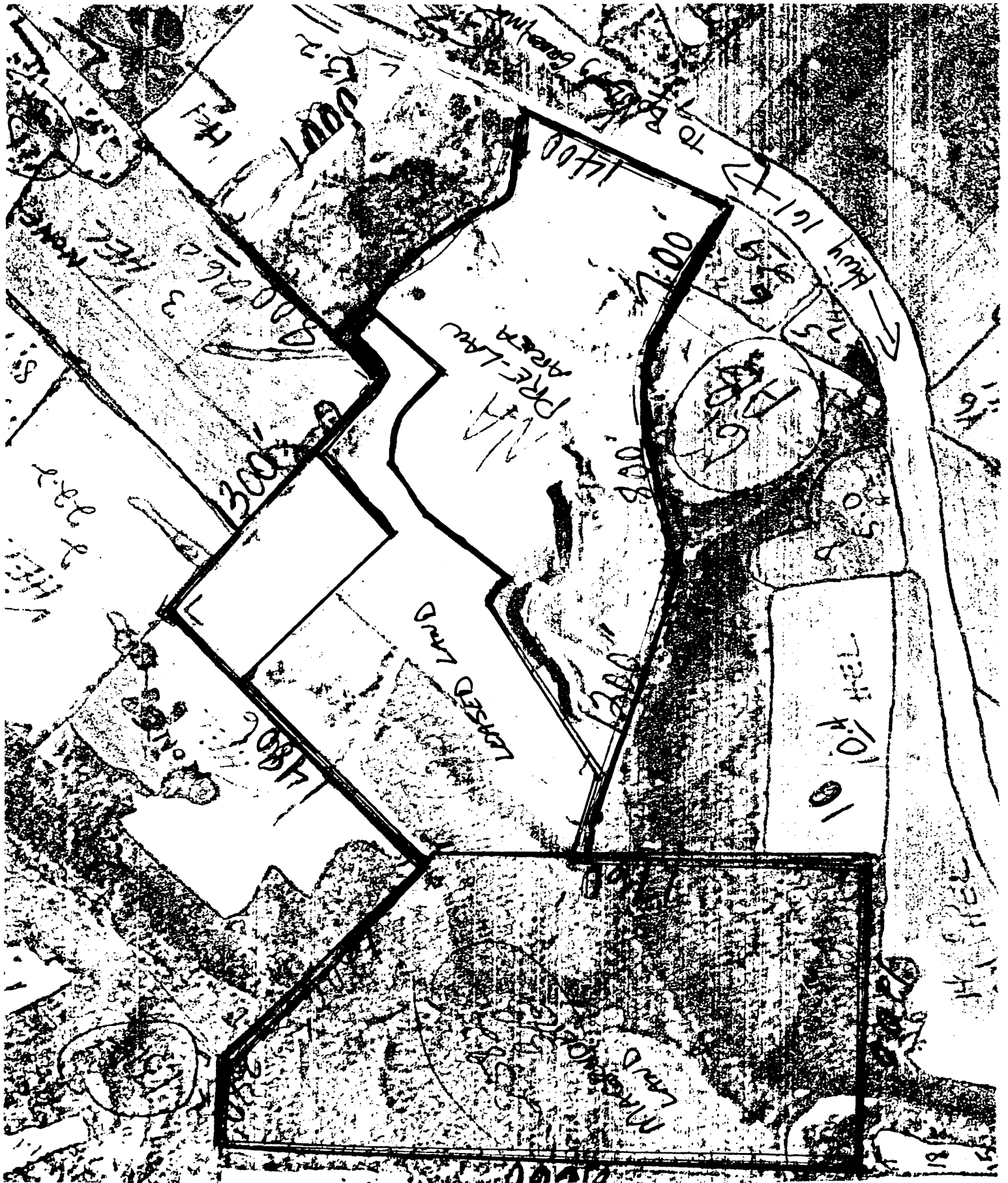
TOWNSHIP 52N • RANGE 3W

SEE PAGE 18

MISSOURI LAND
RECLAMATION CO. 1991

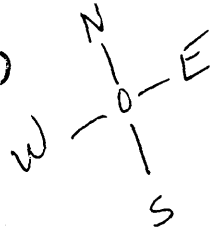


SEE PAGE 29



RECEIVED

OCT 17 2001



DETAIL MAP

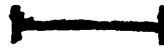
MAGRUDER LIMESTONE CO., INC.
FRANKFORD QUARRY
PIKE COUNTY
TWN 55N-R4W-SECT 35&36

PERMIT #086
PREPARED BY: HAROLD BONO
DATE: October 4, 2001
SCALE: 1"= 400'

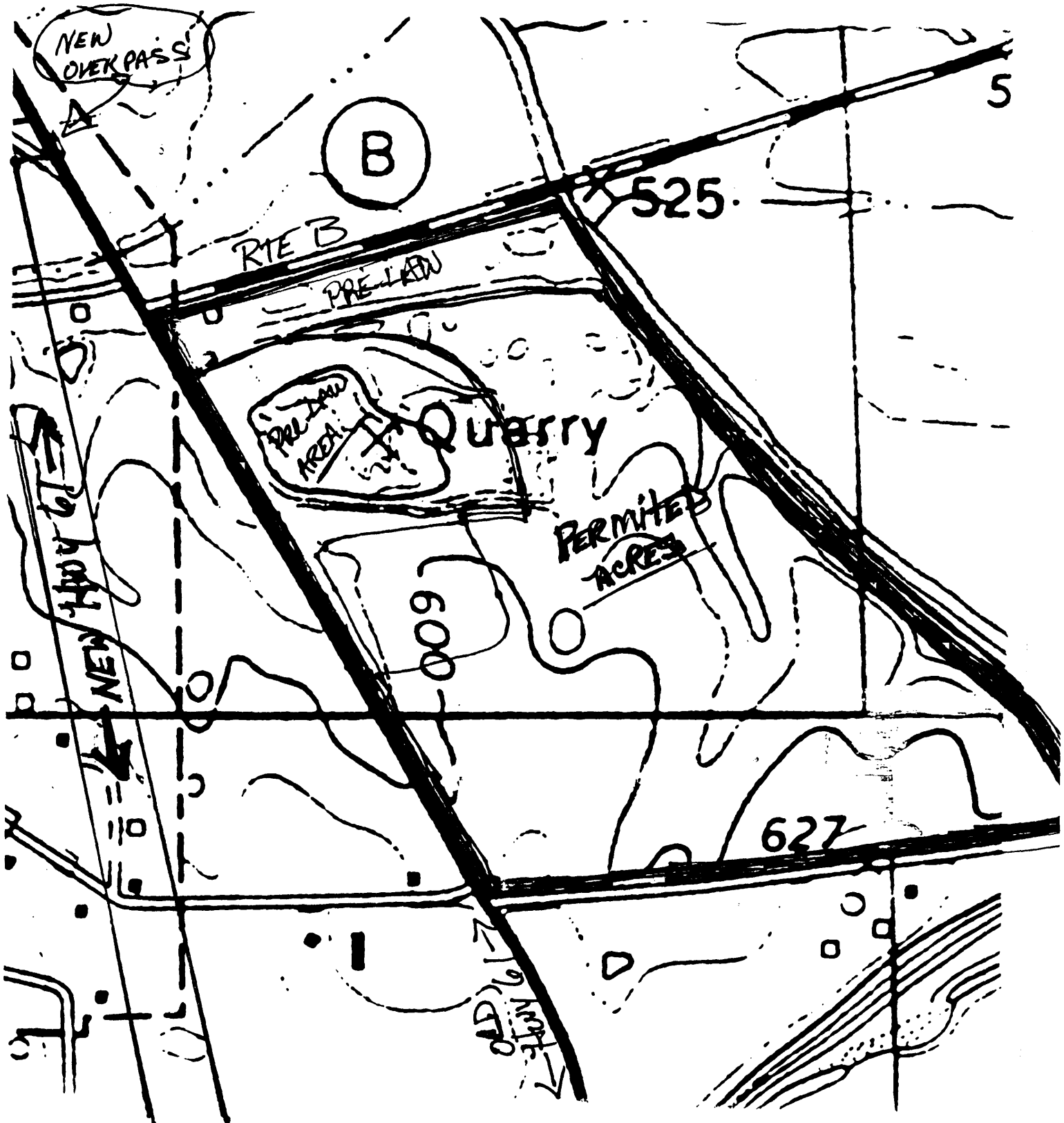
MISSOURI LAND
RECLAMATION CO.



QUARRY BOUNDARY

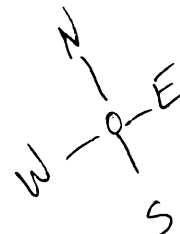


PLAN ACRES & PERMITTED ACRES (45 ACRES TOTAL)



PERMIT #086
PREPARED BY: HAROLD BONO
DATE: October 4, 2001
SCALE: 1"= 3300'

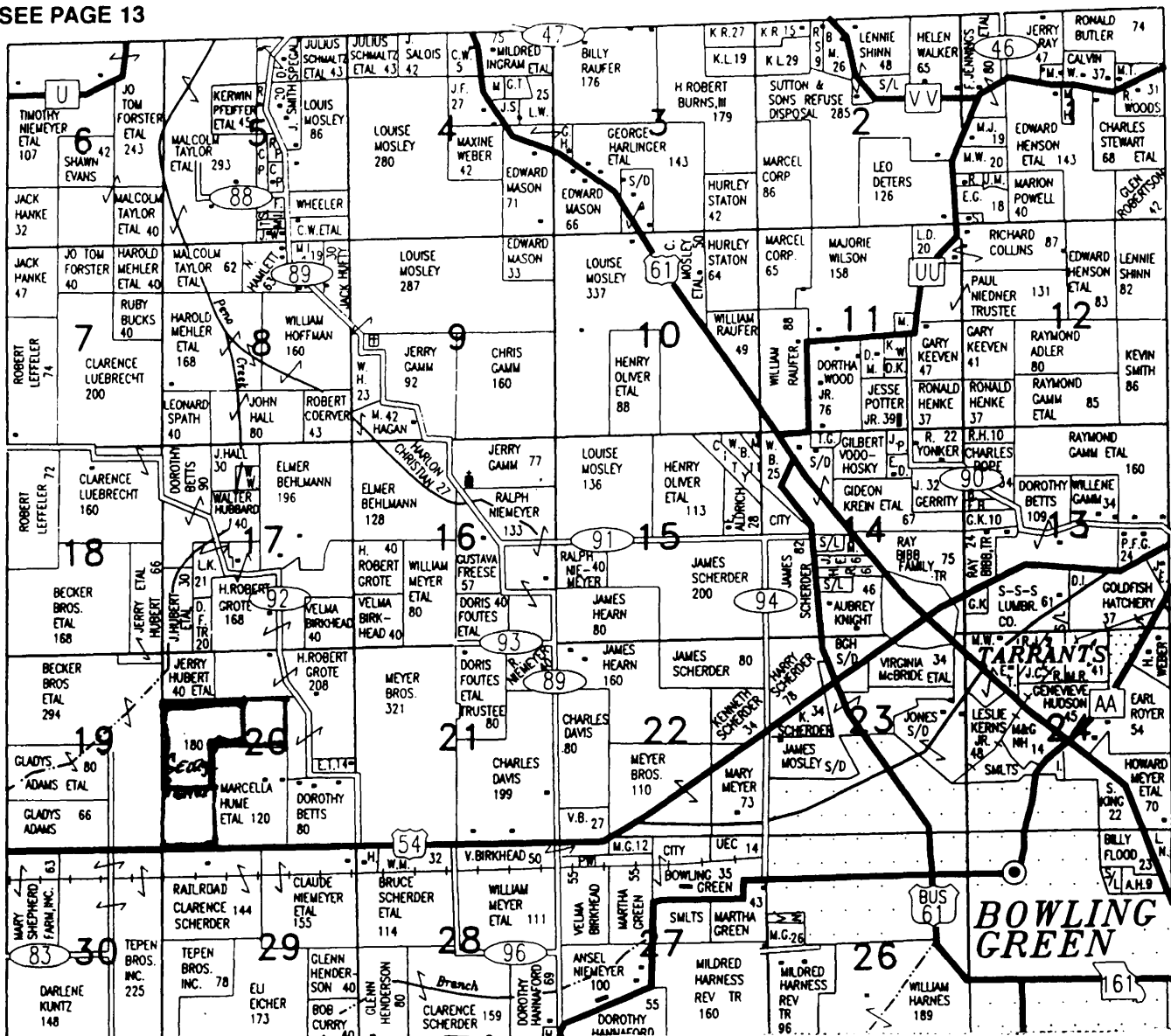
TOWNSHIP 55N • RANGE 4W



SEE PAGE 13

SEE PAGE 17

SEE PAGE 19



Magruder Limestone Co., Inc.
Bowling Green Quarry
Pike County, Mo.

LOCATOR MAP

RECEIVED

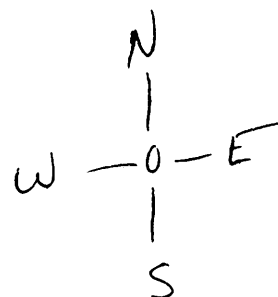
OCT 17 2001

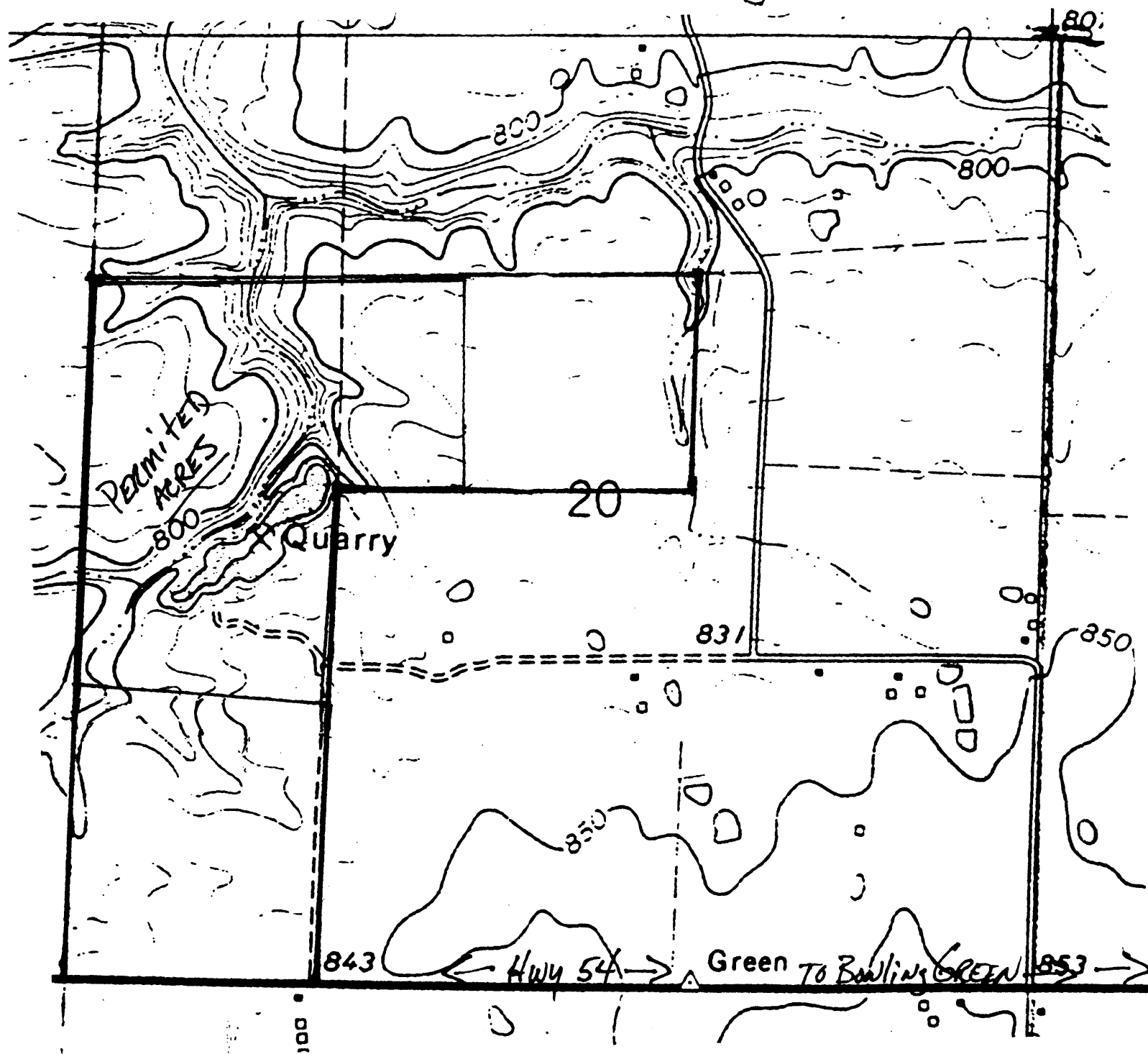
MISSOURI LAND
RECLAMATION COMMISSION

Prepared by:
Dated : 10-5-01
Scale : 1" = 3'

→ Land owned by George Mehler
Property owner.

Land Lease and In Mine Plan





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OCT 17 2001

MISSOURI LAND
RECLAMATION COMMISSION

DETAIL MAP

MAGRUDER LIMESTONE CO., INC.
BOWLING GREEN QUARRY
PIKE COUNTY
TWN 53N-R3W-SECT 20

PERMIT #086
PREPARED BY: HAROLD BONO
DATE: October 4, 2001
SCALE: 1" = 800'

—|— QUARRY BOUNDARY

—|— PLAN ACRES & PERMITTED ACRES (90 ACRES TOTAL)

Property Boundary
owned By: George
Mether

ACRES IN MINE
PLAN - 90 ACRES

PERMITTED
ACRES - 24 ACRES

LAKE AREA
45 ACRES
REST - 45 ACRES
DEVELOPMENT.

800' Quarry

LAKE

PARALLEL OF
PENNSYLVANIA

20

MAGNIFICENT LIMESTONE CO. INC.
BOWLING GREEN QUARRY
PIKE COUNTY
T 53N - R 3W - S 20

DETAIL MAP

PREPARED BY: HAROLD BOND

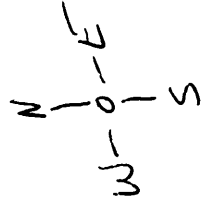
DATE: 10-25-99

PERMIT # 0086

1" = 400'

RECEIVED
NOV 03 1999

MISSOURI LAND
RECLAMATION COMMISSION



11/11/99

11/11/99

RECEIVED
NOV 0 1999

MISSOURI LAND
RECLAMATION COMMISSION

Property Boundary - owned by Magruder homestead
+ Ogil Schender

LAND IN MINE PLAN
90 ACRES

PERMITTED ACRES - 38 acres DATE 8/10-25-99

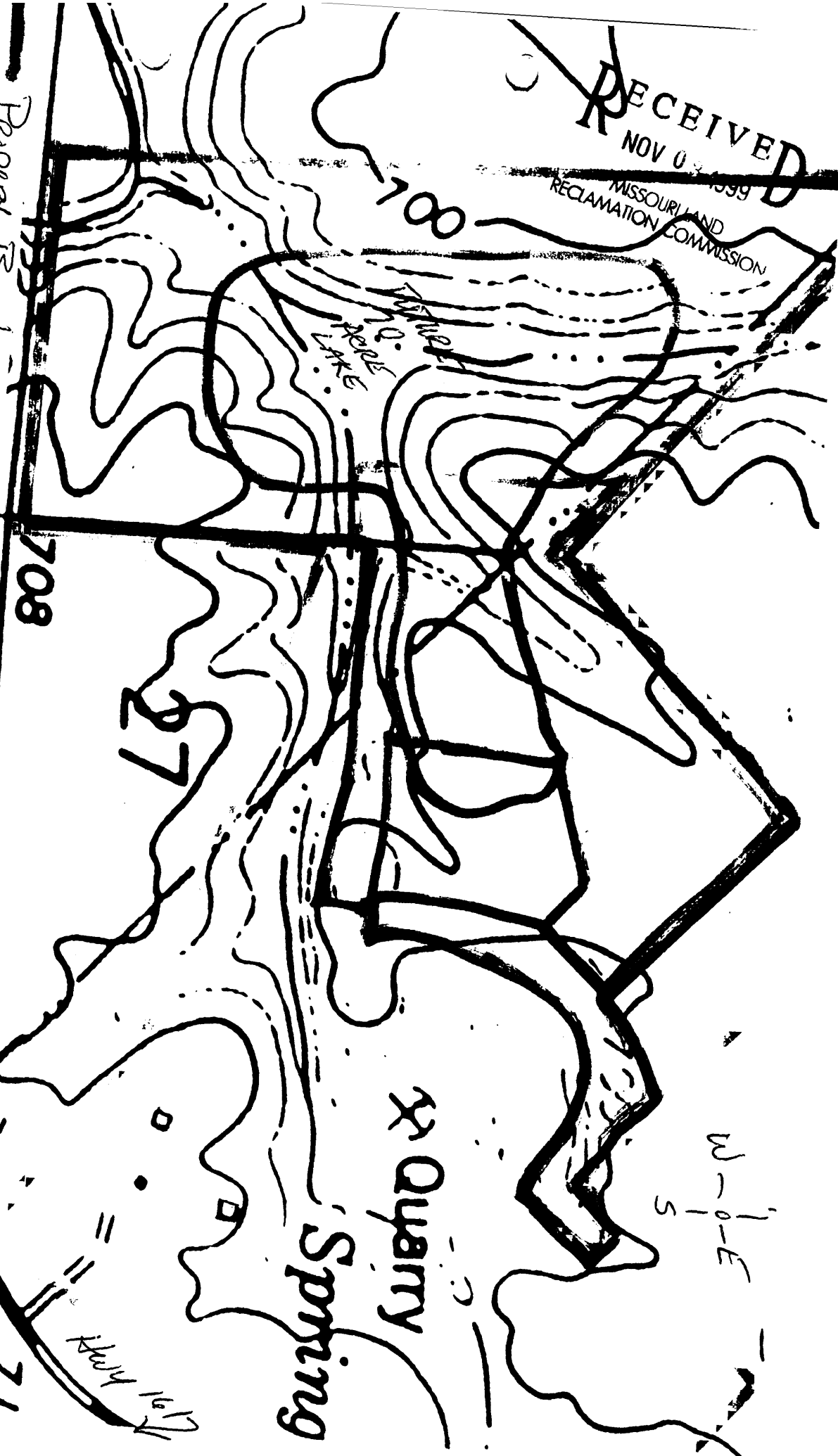
FUTURE LAKE - 70 ACRES PERMIT # 0082

PREPARED BY: HENRY BONO

Magruder's
Pike County
Ashley Quarry

T 52N-R 3W-S 87+28

DETAIL MAP



N-1-E
S

B

5525

Frankford Quarry
T55-R4W-S35+36

DETAIL MAP

PREPARED BY: HAROLD BENO

DATED: 10-25-99

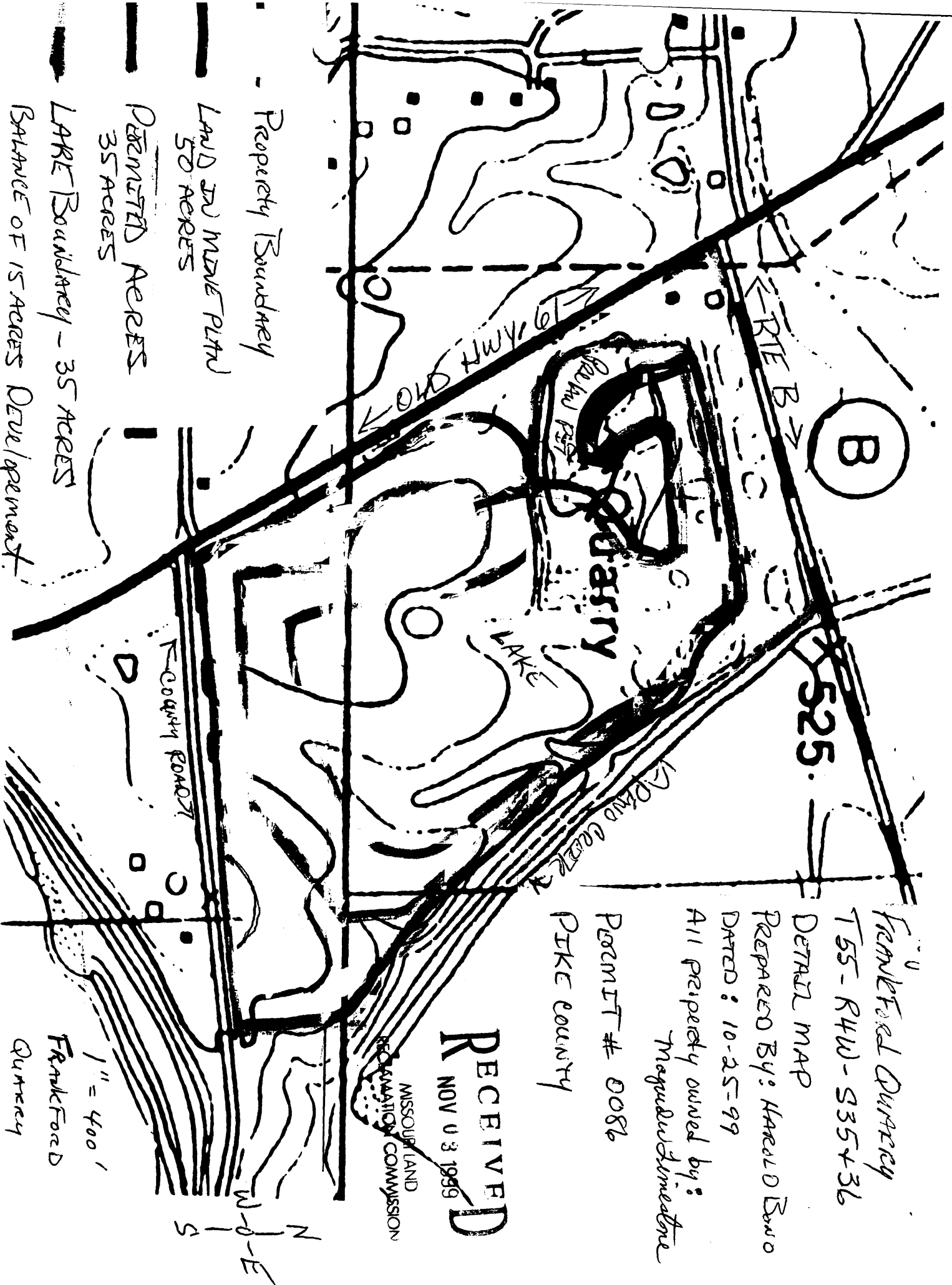
All property owned by:
Magnesium Institute

PERMIT # 0086

Pike County

RECEIVED
NOV 03 1999

MISSOURI LAND
RECLAMATION COMMISSION



Property Boundary

LAND IN MINE PLTN
50 ACRES

PERMITTED ACRES
35 ACRES

LARGE Boundary - 35 ACRES

Balance of 15 ACRES Development

PIKE COUNTY ROAD

1" = 400'

Frankford

Quarry